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1 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library
Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
Publisher: IEEE Computer Society
Full text available: pdf(116.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

2 User studies: Personalizing search via automated analysis of interests and activities
Jaime Teevan, Susan T. Dumais, Eric Horvitz
August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**
Publisher: ACM Press
Full text available: pdf(132.80 KB) Additional Information: full citation, abstract, references, citings, index terms

We formulate and study search algorithms that consider a user's prior interactions with a wide variety of content to personalize that user's current Web search. Rather than relying on the unrealistic assumption that people will precisely specify their intent when searching, we pursue techniques that leverage implicit information about the user's interests. This information is used to re-rank Web search results within a relevance feedback framework. We explore rich models of user interests, built ...

Keywords: adaptive interfaces, personalized search, web search tools

3 Distributed IR: User modeling for full-text federated search in peer-to-peer networks
Jie Lu, Jamie Callan
August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**
Publisher: ACM Press
Full text available: pdf(269.63 KB) Additional Information: full citation, abstract, references, index terms

User modeling for information retrieval has mostly been studied to improve the

effectiveness of information access in centralized repositories. In this paper we explore user modeling in the context of full-text federated search in peer-to-peer networks. Our approach models a user's persistent, long-term interests based on past queries, and uses the model to improve search efficiency for future queries that represent interests similar to past queries. Our approach also enables queries representin ...

Keywords: federated search, peer-to-peer, query clustering, user modeling

4 Demo session: information extraction: Personalizing XML text search in PIMENT

Sihem Amer-Yahia, Irini Fundulaki, Prateek Jain, Laks Lakshmanan

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(198.64 KB) Additional Information: full citation, abstract, references, index terms

A growing number of text-rich XML repositories are being made available. As a result, more efforts have been deployed to provide XML full-text search that combines querying structure with complex conditions on text ranging from simple keyword search to sophisticated proximity search composed with stemming and thesaurus. However, one of the key challenges in full-text search is to match users' expectations and determine the most relevant answers to a full-text query. In this context, we propose < ...

5 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

6 Link-based ranking 1: Scaling personalized web search

Glen Jeh, Jennifer Widom

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: pdf(158.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent web search techniques augment traditional text matching with a global notion of "importance" based on the linkage structure of the web, such as in Google's PageRank algorithm. For more refined searches, this global notion of importance can be specialized to create personalized views of importance--for example, importance scores can be biased according to a user-specified set of initially-interesting pages. Computing and storing all possible personalized views in advance is impractical, as ...

Keywords: PageRank, web search

7 Novel search environments: Integration of simultaneous searching and reference linking across bibliographic resources on the web

William H. Mischo, Thomas G. Habing, Timothy W. Cole

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(279.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Libraries and information providers are actively developing customized portals and gateway software designed to integrate secondary information resources such as A & I services, online catalogs, and publishers full-text repositories. This paper reports on a project carried out at the Grainger Engineering Library at the University of Illinois at Urbana-Champaign to provide web-based asynchronous simultaneous searching of multiple secondary information resources and integrated reference linking be ...

Keywords: asynchronous simultaneous search, digital library, openURL, reference linking, searchbots

8 Interest-based personalized search

Zhongming Ma, Gautam Pant, Olivia R. Liu Sheng

February 2007 **ACM Transactions on Information Systems (TOIS)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, index terms

Web search engines typically provide search results without considering user interests or context. We propose a personalized search approach that can easily extend a conventional search engine on the client side. Our mapping framework automatically maps a set of known user interests onto a group of categories in the Open Directory Project (ODP) and takes advantage of manually edited data available in ODP for training text classifiers that correspond to, and therefore categorize and personalize s ...

Keywords: Open Directory, Personalized search, World Wide Web, information retrieval, user interest, user interface

9 Industrial and practical experience track paper session 1: A personalized search engine based on web-snippet hierarchical clustering

Paolo Ferragina, Antonio Gulli

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available: pdf(514.22 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In this paper we propose a hierarchical clustering engine, called snaket, that is able to organize on-the-fly the search results drawn from 16 commodity search engines into a hierarchy of labeled folders. The hierarchy offers a complementary view to the flat-ranked list of results returned by current search engines. Users can navigate through the hierarchy driven by their search needs. This is especially useful for informative, polysemous and poor queries.SnakeT is the first complete an ...

Keywords: information extraction, new search applications and interfaces, personalized web ranking, search engines, web snippets clustering

10 Personalization and retrieval: Capturing community search expertise for personalized

web search using snippet-indexes
Oisín Boydell, Barry Smyth
November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**
Publisher: ACM Press
Full text available: pdf(288.43 KB) Additional Information: full citation, abstract, references, index terms

We describe and evaluate an approach to capturing and re-using search expertise within a community of like minded searchers, such as the employees of a company or organisation. Within knowledge based industries, search expertise - the ability to quickly and accurately locate information according to a specific information need - is an important corporate asset and in our approach we attempt to capture this knowledge by mining the title and snippet texts of results that have been selected by comm ...

Keywords: community, personalization, snippet, web search

11 Group C: Quark: an efficient XQuery full-text implementation
Anand Bhaskar, Chavdar Botev, Muthiah M. Muthaia Chettiar, Lin Guo, Jayavel Shanmugasundaram, Feng Shao, Fan Yang
June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**
Publisher: ACM Press
Full text available: pdf(228.86 KB) Additional Information: full citation, abstract, references

The XQuery 1.0 and XPath 2.0 Full-text (XQFT) language has been developed by the W3C to extend XQuery and XPath with full-text search capabilities. XQFT allows users to specify a mix of structured and complex full-text predicates, and also allows users to score/rank such queries. The power and flexibility of XQFT gives rise to two interesting questions. First, is it possible to *efficiently* integrate a full-function XML query language with sophisticated full-text search? Second, is it poss ...

12 Document based architecture & applications: UpLib: a universal personal digital library system
William C. Janssen, Kris Popat
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**
Publisher: ACM Press
Full text available: pdf(261.28 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the design and use of a personal digital library system, UpLib. The system consists of a full-text indexed repository accessed through an active agent via a Web interface. It is suitable for personal collections comprising tens of thousands of documents (including papers, books, photos, receipts, email, etc.), and provides for ease of document entry and access as well as high levels of security and privacy. Unlike many other systems of the sort, user access to the document collection ...

Keywords: document management, document repository, page image, personal digital library, thumbnail interfaces, web interfaces

13 CiteSeer^x: a scalable autonomous scientific digital library
Huajing Li, Isaac G. Councill, Levent Bolelli, Ding Zhou, Yang Song, Wang-Chien Lee, Anand Sivasubramaniam, C. Lee Giles
May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**
Publisher: ACM Press
Full text available: pdf(229.57 KB) Additional Information: full citation, abstract, references

CiteSeer is a scientific literature digital library and search engine which automatically

crawls and indexes scientific documents in the fields of computer and information science. Since it's inception in 1997 CiteSeer has grown to index over 730,000 documents and serves over 800,000 requests daily, pushing the limits of the current system's capabilities. In addition, CiteSeer's monolithic architecture inconveniences system maintenance and reduces the flexibility of the system in terms of new fe ...

14 Personalized spiders for web search and analysis

Michael Chau, Daniel Zeng, Hinchun Chen

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: pdf(672.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Searching for useful information on the World Wide Web has become incr easingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the web grows. In addition, search tools usually present to the user only a list of search results, failing to provide further personalized analysis which could help users identify useful information and comprehend these results. To alleviate these ...

Keywords: information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, self-organizing map

15 Web search 2: Personalized web search by mapping user queries to categories

Fang Liu, Clement Yu, Weiyi Meng

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management CIKM '02**

Publisher: ACM Press

Full text available: pdf(286.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Current web search engines are built to serve all users, independent of the needs of any individual user. Personalization of web search is to carry out retrieval for each user incorporating his/her interests. We propose a novel technique to map a user query to a set of categories, which represent the user's search intention. This set of categories can serve as a context to disambiguate the words in the user's query. A user profile and a general profile are learned from the user's search history ...

Keywords: category hierarchy, information filtering, personalization, search engine

16 NSDL: Core services in the architecture of the national science digital library (NSDL)

Carl Lagoze, William Arms, Stoney Gan, Diane Hillmann, Christopher Ingram, Dean Krafft, Richard Marisa, Jon Phipps, John Saylor, Carol Terrizzi, Walter Hoehn, David Millman, James Allan, Sergio Guzman-Lara, Tom Kalt

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(940.66 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the core components of the architecture for the National Science Digital Library (NSDL). Over time the NSDL will include heterogeneous users, content, and services. To accommodate this, a design for a technical and organization infrastructure has been formulated based on the notion of a spectrum of interoperability. This paper describes the first phase of the interoperability infrastructure including the metadata repository, search and discovery services, rights management services, ...

Keywords: architecture, interoperability, metadata, testbeds

17 Supporting sociable literacy in the international children's digital library

Nancy Kaplan, Yoram Chisik, Kendra Knudtzon, Rahul Kulkarni, Stuart Moulthrop, Kathryn Summers, Holly Weeks

June 2004 **Proceeding of the 2004 conference on Interaction design and children: building a community IDC '04**

Publisher: ACM Press

Full text available: pdf(407.51 KB) Additional Information: full citation, abstract, references, citings

As each generation of children grows up in a world shaped by the affordances available to them in both physical and digital environments, their expectations of tools to support changing literacy practices make new demands on technologists and designers. To ensure that digital libraries (DLs) for young people support their understandings of libraries and reading (and not just adults' conceptions), an intergenerational design team (IDT) at the University of Baltimore (UB) used contextual inquiry a ...

Keywords: children, contextual inquiry, cooperative inquiry, digital libraries, participatory design, sociable literacy

18 Selected IR-Related Dissertation Abstracts

Susanne M. Humphrey

November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(2.27 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using Dialog Information Services, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise speci ...

19 Personalization and retrieval: Summarizing local context to personalize global web search

Paul-Alexandru Chirita, Claudiu S. Firan, Wolfgang Nejdl

November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**

Publisher: ACM Press

Full text available: pdf(230.41 KB) Additional Information: full citation, abstract, references, index terms

The PC Desktop is a very rich repository of personal information, efficiently capturing user's interests. In this paper we propose a new approach towards an automatic personalization of web search in which the user specific information is extracted from such local desktops, thus allowing for an increased quality of user profiling, while sharing less private information with the search engine. More specifically, we investigate the opportunities to select personalized query expansion terms for web ...

Keywords: desktop summarization, personalized web search, relevance feedback, user profile

20 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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1 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library
Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
Publisher: IEEE Computer Society
Full text available: pdf(116.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

2 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information
Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
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Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

3 Browsers and UI, web engineering, hypermedia & multimedia, security, and accessibility: Personalization and accessibility: integration of library and web approaches

Ann Chapman, Brian Kelly, Liddy Nevile, Andy Heath
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**
Publisher: ACM Press
Full text available: pdf(125.97 KB) Additional Information: full citation, abstract, references, index terms

This paper describes personalization metadata standards that can be used to enable individuals to access and use resources based on a user's particular requirements. The paper describes two approaches which are being developed in the library and Web worlds and highlights some of the potential challenges which will need to be addressed in order to maximise interoperability. The paper concludes by arguing the need for greater dialogue across these two communities.

Keywords: IMS, MARC, accessibility, metadata

4 Roles of end-users: Making it personal: information that adapts to the reader
John Russell
October 2003 **Proceedings of the 21st annual international conference on Documentation SIGDOC '03**
Publisher: ACM Press
Full text available: pdf(209.11 KB) Additional Information: full citation, abstract, references, index terms

This paper examines the considerations for presenting customized and personalized information within an online documentation library. It discusses what techniques are practical for such a library, within the constraints of delivery technology and user behavior. It illustrates techniques for implementing such features, and discusses lessons learned from using these features in a real product library.

Keywords: customization, data mining, navigation, online information, personalization, search, web interfaces

5 MiBiblio: personal spaces in a digital library universe
Lourdes Fernández, J. Alfredo Sánchez, Alberto García
June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**
Publisher: ACM Press
Full text available: pdf(71.58 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes MiBiblio, a highly personalizable interface to large collections in digital libraries. MiBiblio allows users to create virtual places we term personal spaces. As users find useful items in the repositories, they organize these items and keep them handy in their personal spaces for future use. Personal spaces may also be updated by user agents.

Keywords: agents, personal spaces, personalization, user interfaces

6 A survey of Boolean matching techniques for library binding
Luca Benini, Giovanni De Micheli
July 1997 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(321.93 KB) Additional Information: full citation, abstract, references, citings, index terms

When binding a logic network to a set of cells, a fundamental problem is recognizing whether a cell can implement a portion of the network. Boolean matching means solving this task using a formalism based on Boolean algebra. In its simplest form, Boolean matching can be posed as a tautology check. We review several approaches to Boolean

matching as well as to its generalization to cases involving don't care conditions and its restriction to specific libraries such as those ...

7 Digital libraries and cyberinfastructure track: use of digital libraries in education: Comprehensive personalized information access in an educational digital library

Peter Brusilovsky, Rosta Farzan, Jae-wook Ahn

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05**

Publisher: ACM Press

Full text available: pdf(699.85 KB) Additional Information: full citation, abstract, references, index terms, review

This paper explores two ways to help students locate most relevant resources in educational digital libraries. One method gives a more comprehensive access to educational resources, through multiple pathways of information access, including browsing and information visualization. The second method is to access personalized information through social navigation support. This paper presents the details of the Knowledge Sea II system for comprehensive personalized access to educational resources an ...

Keywords: classroom study, information map, social navigation

8 Web technologies and applications (WTA): A service-oriented customizable Digital Library

Claudia Di Napoli, Maurizio Giordano

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

Full text available: pdf(111.67 KB) Additional Information: full citation, abstract, references, index terms

Web services represent the new methodological and technological challenge in the area of Web-based systems, but they raise problems of discovery, interoperability, security. In this paper we address the problem of Web service interoperability, proposing a Digital Library system that allows for the integration of services offered by different providers. Farthermore, the services provided to the Digital Library user community can be customized according to user profiles. The proposed system repres ...

Keywords: Web Services personalization, service-oriented programming

9 Novel user interfaces: A wearable digital library of personal conversations

Wei-hao Lin, Alexander G. Hauptmann

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(171.86 KB) Additional Information: full citation, abstract, references, citings, index terms

We have developed a wearable, personalized digital library system, which unobtrusively records the wearer's part of a conversation, recognizes the face of the current dialog partner and remembers his/her voice. The next time the system sees the same person and hears the same voice, it can replay parts of the last conversation in compressed form. Results from a prototype system show the effectiveness of combining of face recognition and speaker identification for retrieving conversations.

Keywords: augmented human memory, conversation capture, face recognition, personal digital library, speaker identification

10 User studies: Personalizing search via automated analysis of interests and activities

Jaime Teevan, Susan T. Dumais, Eric Horvitz
August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**
Publisher: ACM Press

Full text available: pdf(132.80 KB) Additional Information: full citation, abstract, references, citings, index terms

We formulate and study search algorithms that consider a user's prior interactions with a wide variety of content to personalize that user's current Web search. Rather than relying on the unrealistic assumption that people will precisely specify their intent when searching, we pursue techniques that leverage implicit information about the user's interests. This information is used to re-rank Web search results within a relevance feedback framework. We explore rich models of user interests, built ...

Keywords: adaptive interfaces, personalized search, web search tools

11 Universal access architecture for digital libraries
Francisco Alvarez-Cavazos, Roberto Garcia-Sanchez, David Garza-Salazar, Juan C. Lavariega, Lorena G. Gomez, Martha Sordia
October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**
Publisher: IBM Press
Full text available: pdf(399.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a universal access architecture for digital libraries. Our architecture supports traditional fixed clients and mobile clients addressing the connection adaptation and limited resources challenges presented by mobile devices. We describe the requirements of universally available personal digital libraries and illustrate their applicability with a user scenario. These requirements are addressed by our universal access architecture, which targets to support multiple device ...

12 Web site engineering: A flexible framework for engineering "my" portals
Fernando Bellas, Daniel Fernández, Abel Muiño
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**
Publisher: ACM Press
Full text available: pdf(420.01 KB) Additional Information: full citation, abstract, references, index terms

There exist many portal servers that support the construction of "My" portals that is portals that allow the user to have one or more personal pages composed of a number of personalizable services. The main drawback of current portal servers is their lack of generality and adaptability. This paper presents the design of MyPersonalizer a J2EE-based framework for engineering My portals. The framework is structured according to the Model-View-Controller and Layers architectural patterns providing g ...

Keywords: design patterns, j2ee, portal technology, web application frameworks and architectures, web engineering

13 Posters: MyPDL: a web-based personal digital library
Wu He, Demei Shen
June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05**
Publisher: ACM Press
Full text available: pdf(133.36 KB) Additional Information: full citation, abstract, references, index terms

In recent years we have witnessed a dramatic increase in the volume of electronic and digital information that has been produced and as a result we feel increasingly overwhelmed by the amount of digital information that needs to be managed. This paper describes a Web-based personal digital library system, myPDL, which was designed and

developed to allow individual users to create, store, organize, and retrieve their own personal digital information collections. The major distinctions between the ...

Keywords: customization, personal digital library, personal information management, personalization

14 Personalized spiders for web search and analysis

Michael Chau, Daniel Zeng, Hinchun Chen

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: pdf(672.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Searching for useful information on the World Wide Web has become incr easingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the web grows. In addition, search tools usually present to the user only a list of search results, failing to provide further personalized analysis which could help users identify useful information and comprehend these results. To alleviate these ...

Keywords: information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, self-organizing map

15 Industry session 3: data analysis, mining, and managing XML: Intelligent metasearch engine for knowledge management

Eui-Hong Han, George Karypis, Doug Mewhort, Keith Hatchard

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**

Publisher: ACM Press

Full text available: pdf(368.32 KB) Additional Information: full citation, abstract, references, index terms

The explosive growth of available information sources and the resulting information overload pose several problems for users in many business organizations and educational institutions. First, searching through several information sources, one at a time, is a source of enormous frustration for users. Second, top-ranked documents in search results are frequently irrelevant to what users are interested in. To address these problems, we have developed ixmeta™, a powerful metasearch engine tha ...

Keywords: clustering, collaboration, collection fusion, library automation, metasearch, personalization

16 Models and tools for generating digital libraries: Localizing experience of digital content via structural metadata

Naomi Dushay

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(342.47 KB) Additional Information: full citation, abstract, references, index terms

With the increasing technical sophistication of both information consumers and providers, there is increasing demand for more meaningful experiences of digital information. We present a framework that separates digital object experience, or rendering, from digital object storage and manipulation, so the rendering can be tailored to particular communities of users. Our framework also accommodates extensible digital object behaviors and interoperability. The two key components of our approach are ...

Keywords: information behavior, information intermediaries, interoperability, metadata, system architecture

17 PERSIVAL: personalized summarization over multimedia health-care information

Noemie Elhadad, Min-Yen Kan, Simon Lok, Smaranda Muresan

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: pdf(44.64 KB) Additional Information: full citation, abstract, references, index terms

In this demonstration, we present several integrated components of PER SIVAL PErsonalized Retrieval and Summarization of Image, Video And anguage)[1], a system designed to provide personalized access to a distributed digital library of medical literature and consumer health information. The global system architecture of PERSIVAL is best described as a two-stage processing pipeline. The first stage is a retrieval system that matches user queries with relevant multimedia data in the library ...

18 Your local newspaper: will it just be content in a digital library?

B. David Kingery

September 1995 **ACM SIGWEB Newsletter**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(394.56 KB) Additional Information: full citation, abstract, index terms

The current research in digital libraries focuses on the academic and research communities with good reason. However, there are other communities of users which need to be supported. One of these communities includes the producers and consumers of newspapers. The local newspaper publisher produces a product which contains information targeted for a specific market. By providing news of local interest, the newspaper publisher creates a specialized collection of text and photographs. It is this "l ...

19 Posters: Personalized project space for managing metadata of geography learning objects

Wenbo Zong, Dan Wu, Aixin Sun, Ee-Peng Lim, Dion Hoe-Lian Goh, Yin-Leng Theng, John Hedberg, Chew-Hung Chang

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05**

Publisher: ACM Press

Full text available: pdf(29.92 KB) Additional Information: full citation, references, index terms

Keywords: geography learning objects, personalized project space

20 Poster session 1: video annotation, indexing and retrieval: Video booklet: a natural video searching and browsing interface

Cai-Zhi Zhu, Xian-Sheng Hua, Tao Mei, Xiu-Qing Wu

November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**

Publisher: ACM Press

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel system, named Video Booklet, which enables efficient and natural personal video browsing and searching. In the system, firstly representative thumbnails of a collection of video segments are selected through an elaborate booklet generation approach, and then reshaped by a set of pre-trained personalized shape templates (such as circle, heart, sector, stamp, etc), consequently printed out on a real booklet or album. When users plan to browse the content of their ...

Keywords: active shape models, self-training, video album, video booklet, video retrieval, video summarization

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2	BRS	31885	(search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile)
3	BRS	13066	(search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3)
4	BRS	9785	(search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)
5	BRS	8888	S10 and S13
6	BRS	8759724	(image$1 PDF ebook e-book$1 OR ibook$1 OR picture$1 OR figure$1)
7	BRS	2685950	(personal OR personnel OR client$1 OR user$1 OR personaliz$3 OR owner$1 OR ownership$1 OR author$1)
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9	BRS	7569535	(text OR document$1 OR article$1 OR paper OR book$1 OR library OR libraries)
10	BRS	11862958	(portion$1 OR segment$1 OR block$1 OR partition$1 OR section$1 OR chapter$1 OR title$1)
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4	BRS	L4	140	707/5,10.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
5	BRS	L5	5	707/201.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
6	BRS	L6	42	707/102.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

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7	BRS	L7	104	707/104.1.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
8	BRS	L8	132	709/203.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
9	BRS	L9	46	709/224.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

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10	BRS	L10	512	"709"/$.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
11	BRS	L11	107	"709"/217.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
12	BRS	L12	9	"715"/512.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

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14	BRS	L14	15	"715"/500.ccls. and (image$1 ebook$1) same (search$3 OR brows$3 OR retriev$3) AND (term$1 OR keyword$1) AND (personal AND profile) AND (purchas$3) AND ((limit$3 OR authoriz$3 OR password$1) SAME user$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB